Executive Engineer,
Yelahanka Division,
Bruhat Bengaluru Mahanagara Palike

e – MEASUREMENT BOOK

(SIX AND Final)

Name of the Package:

Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)

AGENCY: Sri. H Srinivas Reddy

Estimate Cost: 1000.00 Lakhs

Project Management Consultants:
SAPIENCE CONSULTANTS AND ENGINEERS, BANGALORE.
#B9-003, GANGA, Jnanabharathi Enclave, Valagerahalli, Mysore Road Bangalore 560056
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BRUHAT BANGALORE MAHANAGARA PALIKE

BILL FORM

NAME OF WORK:- Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)

Contractor / Agency:	Sri. Sreenivasa Reddy	JOB CODE: 003 - 22 - 000006
SIXTH and FINAL		

Item No	Description of Work	Unit	Modified Bill of Qunatites as per Work Slip and EIRL	Previous Measurement		Present Measurement			Total Up-to-Date	
				Qty	Amount	Quantity	Rate	Amount	Quantity	Amount
1	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embarnkemnt location to a lead of 1.00 km and complete as per specifications MORTH Specification No.301 (I No-19.14,P No-143) Pre measurement Vide Pg 126	Cum	6204.48	5008.80	323468.70	1195.68	64.58	**77217.01**	**6204.48**	**400685.71**
2	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147) Pre measurement Vide Pg - 125	Sqm	16998.06	15188.76	97512.32	1809.30	6.42	**11615.71**	**16998.06**	**109128.03**

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7	machine mixed , machine mixed, concrete laid in layers mot exceeding 15cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per Specifications. Specifications No. KBS 4.1 , 4.2 ,Pg.No 30 Pre measurments vide Pg - 121	Cum	936.35	879.18						

Item No	Description of Work	Unit	Modified Bill of Qunatites as per Work Slip and EIRL	Previous Measurement		Present Measurement			Total Up-to-Date	
				Qty	Amount	Quantity	Rate	Amount	Quantity	Amount
3	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153) Pre measurments Vide Pg = 124	Cum	2549.72	2278.32	4590514.69	271.40	2014.87	546835.72	2549.72	5137350.41
4	KSRRB M600-1.Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and 0.86cum and fine aggregate @0.58cum over a prepared sub-base,coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1.Aggregate gradation after blending to be as per Table 600-1,optimum moisture content to be determind during trial length construction,concrete strength not be determinde during trial length costruction, concrete strength not to be less than 10Mpa at 7 days,mixed in a batching plant,transported to site,laid with a paver,compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per spectications. Clause 601 of MORTH V Revision and IS 456 Table-5 , with OPC at 150 kg/cum and coarse aggregate 0.86 cum,fine aggregate 0.58 cum using concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver 22.1.2,Pg No.-174 .. Pre measurments vide Pg = 123	Cum	1144.82			488.04				
		UP TO 125%	820.98	656.78	2694045.88	164.20	4101.90	673531.98	820.98	3367577.86
		Above 125%	323.84			323.84	4256.78	1378515.64	323.84	1378515.64

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Item No	Description of Work	Unit	Modified Bill of Qunatites as per Work Slip and EIRL	Previous Measurement		Present Measurement			Total Up-to-Date	
				Qty	Amount	Quantity	Rate	Amount	Quantity	Amount
5	Constructing un-reinforced,plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum,fine aggregates at 0.46 cum,coarse and fine aggregate conforming to IS:383-2016,with Superplastizer at 3 lts conforming to IS 9103-2008.mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design,laid in approved fixed side form work (sreel channel,layning and fixing of 125 micron thick polythene fim, wedges, steel plates including levelling the form work as per drawing). & Speration the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a construction and longitudinal joints,including groove cutting charges,joint filler,separation membrane of impermiable plastic sheet of 125 micron,sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials,labour,hire charges of machineries , all lead & lift charges etc., complete as per specifications.with OPC AT 360 kg/cum and coarse aggregate 0.69,fineaggregate 0.46cum. Item No.-22.6.3,Page No.-176 Pre Measurements vide Pg - 122	Cum	1144.82			488.04				
	UP TO 125%		820.98	656.78	3737505.11	164.20	5690.65	934404.73	820.98	4671909.84
	Above 125%		323.84			323.84	6062.35	1963231.42	323.84	1963231.42
6	KSRB 4-1.6: Providing and laying in postion **Plain cement concrete of Mix 1:2:4 with OPC @ 240kgs,** with 20mm and down size graded granite metal coarse aggregates @	Cum	86.05	86.05	524031.59	0.00	6089.85	0.00	86.05	524031.59
7	KSRB 4-1.3 : Providing and laying in position **plain cement concrete ofg Mix 1:4:8 with** opc @180kgs, with 40mm and down size graded granite metal coarse aggregates@0.85 cum and fine aggregates @0.57 cum machine mixed , machine mixed, concrete laid in layers mot exceeding 15cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per Specifications. Specifications No. KBS 4.1 , 4.2 ,Pg.No 30 Pre measurements vide Pg - 131	Cum	936.35	879.18	4990216.89	54.60	5675.99	309909.05	933.78	5300125.94

Item No	Description of Work	Unit	Modified Bill of Qunatites as per Work Slip and EIRL	Previous Measurement		Present Measurement			Total Up-to-Date	
				Qty	Amount	Quantity	Rate	Amount	Quantity	Amount
	UP TO 125%		820.98	656.78	3737505.11	164.20	5690.65	934404.73	820.98	4671909.84
	Above 125%		323.84			323.84	6062.35	1963231.42	323.84	1963231.42
6	KSRB 4-1.6: Providing and laying in postion **Plain cement concrete of Mix 1:2:4 with OPC @ 240kgs,** with 20mm and down size graded granite metal coarse aggregates @	Cum	86.05	86.05	524031.59	0.00	6089.85	0.00	86.05	524031.59
7	KSRB 4-1.3 : Providing and laying in position **plain cement concrete ofg Mix 1:4:8 with** opc @180kgs, with 40mm and down size graded granite metal coarse aggregates@0.85 cum and fine aggregates @0.57 cum machine mixed , machine mixed, concrete laid in layers mot exceeding 15cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per Specifications. Specifications No. KBS 4.1 , 4.2 ,Pg.No 30 Pre measurements vide Pg - 131	Cum	936.35	879.18	4990216.89	54.60	5675.99	309909.05	933.78	5300125.94
8	KSRB 4-1.2 : Providing and laying in position **plain cement concrete ofg Mix 1:5:10 with** opc @150kgs, with 40mm and down size graded granite metal coarse aggregates@0.85 cum and fine aggregates @0.57 cum machine mixed , machine mixed, concrete laid in layers mot exceeding 15cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per Specifications. Specifications No. KBS 4.1 , 4.2 ,Pg.No 30 Pre measurements vide Pg - 132	Cum	1144.82	1144.82	6870120.00	0.00	5675.99	0.00	1144.82	6870120.00
9	KSRB 4-1.1 : Providing and laying in position **plain cement concrete ofg Mix 1:6:12 with** opc @120kgs, with 40mm and down size graded granite metal coarse aggregates@0.85 cum and fine aggregates @0.57 cum machine mixed , machine mixed, concrete laid in layers mot exceeding 15cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per Specifications. Specifications No. KBS 4.1 , 4.2 ,Pg.No 30 Pre measurements vide Pg - 133	Cum	1144.82	1144.82	6870120.00	0.00	5675.99	0.00	1144.82	6870120.00
10	KSRB 4-1.4 : Providing and laying in position **plain cement concrete ofg Mix 1:3:6 with** opc @210kgs, with 40mm and down size graded granite metal coarse aggregates@0.85 cum and fine aggregates @0.57 cum machine mixed , machine mixed, concrete laid in layers mot exceeding 15cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per Specifications. Specifications No. KBS 4.1 , 4.2 ,Pg.No 30 Pre measurements vide Pg - 134	Cum	1144.82	1144.82	6870120.00	0.00	5675.99	0.00	1144.82	6870120.00
11	KSRB 4-1.5 : Providing and laying in position **plain cement concrete ofg Mix 1:2:4 with** opc @240kgs, with 40mm and down size graded granite metal coarse aggregates@0.85 cum and fine aggregates @0.57 cum machine mixed , machine mixed, concrete laid in layers mot exceeding 15cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per Specifications. Specifications No. KBS 4.1 , 4.2 ,Pg.No 30 Pre measurements vide Pg - 135	Cum	1144.82	1144.82	6870120.00	0.00	5675.99	0.00	1144.82	6870120.00
12	Providing and laying in position **plain cement concrete ofg Mix 1:4:8 with** opc @180kgs, with 40mm and down size graded granite metal coarse aggregates@0.85 cum and fine aggregates @0.57 cum machine mixed , machine mixed, concrete laid in layers mot exceeding 15cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per Specifications. Specifications No. KBS 4.1 , 4.2 ,Pg.No 30 Pre measurements vide Pg - 136	Cum	1144.82	1144.82	6870120.00	0.00	5675.99	0.00	1144.82	6870120.00

Item No	Description of Work	Unit	Modified Bill of Qunatites as per Work Slip and EIRL	Previous Measurement		Present Measurement			Total Up-to-Date	
				Qty	Amount	Quantity	Rate	Amount	Quantity	Amount
8	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1) Pre measurents vide Pg-132	Cum	6211.09	5685.74	1236250.45	515.05	217.43	111987.32	6200.79	1348237.77
9	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications. Wall and Bottom Thickness 15 cm , Item No.37.59.2, Page No.271.- Pre measurements Vide Pg - 129	Cum	1657.93	1546.27	11592726.37	107.43	7497.22	805426.34	1653.70	12398152.71
10	KSRRB M 2200-6 Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. MORTH Specification No 1600 & 2200 TMT Bars Fe 500 Page No 229 Item No 28.8.2 SR 2018-19 Pre-Premeasurents Vide Pg: 130	Tonne	108.93	102.40	8289244.26	6.246	80948.07	505601.65	108.65	8794845.91

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Item No	Description of Work	Unit	Modified Bill of Qunatites as per Work Slip and EIRL	Previous Measurement		Present Measurement			Total Up-to-Date	
				Qty	Amount	Quantity	Rate	Amount	Quantity	Amount
11	Providing and Fixing pre cast covering Slab of 100mm thick made out of CC jelly 20mm and down size with steel reinforcement , including form work, lift charges, curing including cost of all materials ,Labour,Hire charges of machineries,loading onloading,lead and lift,Transportation etc,complete. as per Engineer in-charge.(Date rate) Pre Measurements Vide Pg :125	Sqm	4816.29	4523.79	8781671.62	258.24	1941.22	495476.99	4779.03	9277148.61
12	Providing and fixing RCC precast cover slab of 230mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate) Pre measurements Vide Pg -184	Sqm	137.64			70.44				
	UP TO 125%		84.00	67.20	304473.79	16.80	4530.86	76118.45	84.00	380592.24
	Above 125%		53.64			53.64	4530.86	243035.33	53.64	243035.33
13	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in	No	9300.00	9300.00	4062240.00	0.00	436.80	0.00	9300.00	4062240.00
14	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 ,Specification No.KSRRB M800 - 6.P.No.180,I.No-24.1 of PW,P & IWTD SR 2018-19 , Pre measurements Vide Pg -119	Sqm	1276.45	0.00	0.00	1276.45	85.65	109327.94	1276.45	109327.94
15	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix	Cum	2011.58	2011.58	4065981.92	0.00	2021.29	0.00	2011.58	4065981.92

Item No	Description of Work	Unit	Modified Bill of Qunatites as per Work Slip and EIRL	Previous Measurement		Present Measurement			Total Up-to-Date	
				Qty	Amount	Quantity	Rate	Amount	Quantity	Amount
	KSRRB 300 Excavation for road drains and similar									

Item No	Description of Work	Unit	Modified Bill of Qunatites as per Work Slip and EIRL	Previous Measurement		Present Measurement			Total Up-to-Date	
				Qty	Amount	Quantity	Rate	Amount	Quantity	Amount
16	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and sparying primer at the rte of 0.60 kg /sqm using	Sqm	10057.89	10057.89	344582.90	0.00	34.26	0.00	10057.89	344582.90
17	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of materials , labour, HOM complete as per specification P.No.-158,I.No-21.7,Issue Rate Pre measurements vide Pg - 121	Sqm	28418.59	27929.50	358894.10	489.09	12.85	6284.81	28418.59	365178.91
18	KSRRB M500-17. Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with mechanical paver Gr-II (50mm to 75mm) with 4.5% VG-30 bitumen with all lead and lift and as per the direction of Engineer in-charge.I.No.-21.17.6,Pg.No.- 160 ,Data Rate Pre measurements Vide Pg - 120	Cum	1420.92	1396.48	10286130.00	24.44	7365.73	180018.44	1420.92	10466148.44
19	Providing and laying Bituminous concrete , using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision - using 40-60 TPH capacity HMP with mechanical paver grading II (30-40mm) with 5.4% of VG-30 bitumen .Page no-162 It. No -21.22.6 Pre measurements Vide Pg - 119A	Cum	1136.74	1052.24	8980677.61	84.50	8534.82	721192.29	1136.74	9701869.90

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Item No	Description of Work	Unit	Modified Bill of Qunatites as per Work Slip and EIRL	Previous Measurement		Present Measurement			Total Up-to-Date	
				Qty	Amount	Quantity	Rate	Amount	Quantity	Amount
20	KSRRB M800-13. Road Marking with Hot Applied "Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface / Concrete Surface :- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per	Sqm	1151.45	1151.45	528849.70	0.00	459.29	0.00	1151.45	528849.70
21	KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the	No	1042.00	1042.00	375943.30	0.00	360.79	0.00	1042.00	375943.30
	EXTRA ITEMS									
E1	Providing and laying reinforced cement concrete pipe NP3 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. Specifications. No. KSRB 1000, 2300 MOST Specification No.1000 / 2300 - - 600mm. dia (Page No 254, Item No. 34.6.3) Pre measurements vide pg -116	Mtr	176.00			176.00	3416.28	601265.28	176.00	601265.28
E2	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6 stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (Page No. 255, Item No. 34.8.2) Pre measurements Vide pg - 115	Cum	9.95			9.95	4920.48	48958.78	9.95	48958.78

SAPIENCE CONSULTANTS ENGINEERS * Bangalore-59

Item No	Description of Work	Unit	Modified Bill of Qunatites as per Work Slip and EIRL	Previous Measurement		Present Measurement			Total Up-to-Date	
				Qty	Amount	Quantity	Rate	Amount	Quantity	Amount
	KSRRB M500-6. Providing and applying primer coat with									
						0.00	34.26	0.00	10057.89	344582.90

Item No	Description of Work	Unit	Modified Bill of Qunatites as per Work Slip and EIRL	Previous Measurement		Present Measurement			Total Up-to-Date	
				Qty	Amount	Quantity	Rate	Amount	Quantity	Amount
E3	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 (Page No. 158, Item No. 21.2)	Sqm	11382.39			11382.39	5.35	60895.79	11382.39	60895.79
TOTAL CONSTRUCTION COST					76164961.20			9860850.67		86025811.87
GOODS AND SERVICE TAX at 12%					9139795.34			1183302.08		10323097.42
NET AMOUNT PAYABLE					85304756.54			11044152.75		96348909.29

Certificate

1 The above work has been Completed satisfactorily
2 The debris has been removed and disposed from the work spot.
3 No. departmental issues are made to the contractor

PMC

Contractor

Assistant Engineer
Yelahanka New Town Sub Division
BBMP

Asst. Executive Engineer
Yelahanka New Town Sub Division
BBMP

Executive Engineer
Yelahanka Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)

Measurement Sheet

SIXTH and FINAL

Item No:	8
Item Name:	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH Chapter 3 (PW,P& IWTD SR 2018-19, Pg No 143 Item No.19.1) Rates Including Loading and Unloading Charges and Lead up to 15.00 Kms)
Final Measurement Date(s) :	16/06/2022,17/06/2022,18/06/2022,20/06/2022,21/06/2022

Chainage / Land Mark		Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
E/W Excavation for New RCC Drains and Culverts									
Adithya Nagara									
2nd Main (Masjid) Road from Masjid Road Turning to Yelahanka Main Road - LHS									
	0.00	20.50	1	20.50	1.10		1.10	0.90	20.30
	20.50	23.80	1	3.30	1.10		1.10	0.90	3.27
	23.80	30.80	1	7.00	1.10		1.10	0.90	6.93
	30.80	37.00	1	6.20	1.10		1.10	0.90	6.14
	37.00	46.00	1	9.00	1.10		1.10	0.90	8.91
	46.00	64.10	1	18.10	1.10		1.10	0.90	17.92
	64.10	69.50	1	5.40	1.10		1.10	0.90	5.35
	69.50	73.00	1	3.50	1.10		1.10	0.90	3.47
	73.00	111.20	1	38.20	1.10		1.10	0.90	37.82
	111.20	121.50	1	10.30	1.10		1.10	0.90	10.20
	121.50	148.00	1	26.50	1.10		1.10	0.90	26.24
22ND MAIN ROAD DOWNSIDE (MARAMMA TEMPLE OPP)									
	0.00	30.00	1	30.00	1.10		1.10	0.90	29.70
	30.00	41.00	1	11.00	1.10		1.10	0.90	10.89
GKVK Road									
INSIDE CENTER OF EXCELLANCE FOR FORMER PRODUCER OFFICE - LHS									
	0.00	30.00	1	30.00	1.40		1.40	1.20	50.40
	30.00	60.00	1	30.00	1.40		1.40	1.20	50.40
	60.00	90.00	1	30.00	1.40		1.40	1.20	50.40
	90.00	102.00	1	12.00	1.40		1.40	1.20	20.16
Rain Water Harvesting Pits									
			10		1.13		1.13	1.00	11.30

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಜಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Chainage / Land Mark			Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
E/W for laying New NP3 Pipes inside CRPF Quarters										
FROM IVRF ROAD TO CRPF POND										
	0.00	30.00	1	30.00	0.75		0.75	1.00	22.50	
	30.00	60.00	1	30.00	0.75		0.75	1.00	22.50	
	60.00	90.00	1	30.00	0.75		0.75	1.00	22.50	
	90.00	120.00	1	30.00	0.75		0.75	1.00	22.50	
	120.00	150.00	1	30.00	0.75		0.75	1.00	22.50	
	150.00	163.00	1	13.00	0.75		0.75	1.00	9.75	
	0.00	6.00	1	6.00	0.75		0.75	1.00	4.50	
	0.00	7.00	1	7.00	0.75		0.75	1.00	5.25	
Chambers										
			9	1.50	0.75		0.75	1.00	7.59	
			2	2.10	0.75		0.75	1.00	3.15	
								Total Qty	515.05	CUM
								Qty Payable in this bill	515.05	CUM

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಜಿ.ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬೆಂಗಳೂರು-106

Contractor Representative

Consultant Representative

Asst Engineer
Yelahanka New Town Sub Division
BBMP

Asst.Executive Engineer
Yelahanka New Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)

Measurement Sheet

SIXTH and FINAL

Item No:	7
Item Name:	KSRB 4-1.3 : Providing and laying in position plain cement concrete ofg Mix 1:4:8 with opc @180kgs, with 40mm and down size graded granite metal coarse aggregates@0.85 cum and fine aggregates @0.57 cum machine mixed , machine mixed, concrete laid in layers mot exceeding 15cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per Specifications. Specifications No. KBS 4.1 , 4.2 ,Pg.No 30
Final Measurement Date(s) :	17/06/2022, 18/06/2022, 20/06/2022

Chainage / Land Mark		Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
E/W Excavation for New RCC Drains and Culverts									
Adithya Nagara									
2nd Main (Masjid) Road from Masjid Road Turning to Yelahanka Main Road - LHS									
	0.00	20.50	1	20.50	1.10		1.10	0.15	3.38
	20.50	23.80	1	3.30	1.10		1.10	0.15	0.54
	23.80	30.80	1	7.00	1.10		1.10	0.15	1.16
	30.80	37.00	1	6.20	1.10		1.10	0.15	1.02
	37.00	46.00	1	9.00	1.10		1.10	0.15	1.49
	46.00	64.10	1	18.10	1.10		1.10	0.15	2.99
	64.10	69.50	1	5.40	1.10		1.10	0.15	0.89
	69.50	73.00	1	3.50	1.10		1.10	0.15	0.58
	73.00	111.20	1	38.20	1.10		1.10	0.15	6.30
	111.20	121.50	1	10.30	1.10		1.10	0.15	1.70
	121.50	148.00	1	26.50	1.10		1.10	0.15	4.37
22ND MAIN ROAD DOWNSIDE (MARAMMA TEMPLE OPP)									
	0.00	30.00	1	30.00	1.10		1.10	0.15	4.95
	30.00	41.00	1	11.00	1.10		1.10	0.15	1.82
GKVK Road									
INSIDE CENTER OF EXCELLANCE FOR FORMER PRODUCER OFFICE - LHS									
	0.00	30.00	1	30.00	1.40		1.40	0.15	6.30
	30.00	60.00	1	30.00	1.40		1.40	0.15	6.30
	60.00	90.00	1	30.00	1.40		1.40	0.15	6.30
	90.00	102.00	1	12.00	1.40		1.40	0.15	2.52

Chainage / Land Mark	Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
FROM IVRF ROAD TO CRPF POND								
Chambers								
	9	1.50	0.75		0.75	0.15	1.52	
	2	2.10	0.75		0.75	0.15		Culvert
						Total Qty	54.60	CUM
						Qty Payable in this bill	54.60	CUM

Contractor Representative

Consultant Representative

Asst Engineer
Yelahanka New Town Sub Division
BBMP

Asst.Executive Engineer
Yelahanka New Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO-12)

Measurement Sheet

SIXTH and FINAL

Item No:	10
Item Name:	KSRRB M 2200-6 Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. MORTH Specification No 1600 & 2200 TMT Bars Fe 500 Page No 229 Item No 28.8.2 SR 2018-19
Measurement Date(s):	18/06/2022, 20/06/2022, 21/06/2022

Sl No	Dia of Bar in mm	Mat	Spacing of Bar	Nos	Length of Bar in mtr	Total Length of Bar in mtr	Type of Bar	Standard Weight per Meter in kgs	Weight of Steel in kgs	Remarks
Adithya Nagara										
2nd Main (Masjid) Road from Masjid Road Turning to Yelahanka Main Road - LHS										
1	8	2	225mm C/C	9	148.00	2565.33	Distri	0.395	1013.46	
2	10	2	225mm C/C	658	1.95	2565.33	Main	0.617	1583.54	
22ND MAIN ROAD DOWNSIDE (MARAMMA TEMPLE OPP)										
1	8	2	150mm C/C	13	41.00	1066.00	Distri	0.395	421.14	
2	10	2	150mm C/C	273	1.95	1066.00	Main	0.617	658.02	
INSIDE CENTER OF EXCELLANCE FOR FORMER PRODUCER OFFICE										
1	8	2	225mm C/C	12	102.00	2538.67	Distri	0.395	1003.09	
2	10	2	225mm C/C	453	2.80	2538.67	Main	0.617	1567.08	
								Total Quantity of Steel in Kg's	**6246.17**	**Kgs**
								Total Quantity of Steel in Tonne's	**6.2460**	**TONNE**

Contractor Representative

Consultant Representative

Asst.Engineer
Yelahanka New Town Sub Division
BBMP

Asst.Executive Engineer
Yelahanka New Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)

Measurement Sheet

SIXTH and FINAL

Item No:	9
Item Name:	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications. Wall and Bottom Thickness 15 cm , Item No.37.59.2, Page No.271.-
Final Measurement Date(s) :	21/06/2022, 22/06/2022, 23/06/2022, 24/06/2022, 25/06/2022

Chainage / Land Mark		Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
Raft Concrete for New RCC Drains and Culverts									
Adithya Nagara									
2nd Main (Masjid) Road from Masjid Road Turning to Yelahanka Main Road - LHS									
	0.00	20.50	1	20.50	0.90		0.90	0.15	2.77
	20.50	23.80	1	3.30	0.90		0.90	0.15	0.45
	23.80	30.80	1	7.00	0.90		0.90	0.15	0.95
	30.80	37.00	1	6.20	0.90		0.90	0.15	0.84
	37.00	46.00	1	9.00	0.90		0.90	0.15	1.22
	46.00	64.10	1	18.10	0.90		0.90	0.15	2.44
	64.10	69.50	1	5.40	0.90		0.90	0.15	0.73
	69.50	73.00	1	3.50	0.90		0.90	0.15	0.47
	73.00	111.20	1	38.20	0.90		0.90	0.15	5.16
	111.20	121.50	1	10.30	0.90		0.90	0.15	1.39
	121.50	148.00	1	26.50	0.90		0.90	0.15	3.58
22ND MAIN ROAD DOWNSIDE (MARAMMA TEMPLE OPP)									
	0.00	30.00	1	30.00	0.90		0.90	0.15	4.05
	30.00	41.00	1	11.00	0.90		0.90	0.15	1.49
GKVK Road									
INSIDE CENTER OF EXCELLANCE FOR FORMER PRODUCER OFFICE - LHS									
	0.00	30.00	1	30.00	1.20		1.20	0.15	5.40
	30.00	60.00	1	30.00	1.20		1.20	0.15	5.40
	60.00	90.00	1	30.00	1.20		1.20	0.15	5.40
	90.00	102.00	1	12.00	1.20		1.20	0.15	2.16

Chainage / Land Mark		Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
Wall Concrete for New RCC Drains and Culverts									
Adithya Nagara									
2nd Main (Masjid) Road from Masjid Road Turning to Yelahanka Main Road - LHS									
	0.00	20.50	2	20.50	0.15		0.15	0.60	3.69
	20.50	23.80	2	3.30	0.15		0.15	0.60	0.59
	23.80	30.80	2	7.00	0.15		0.15	0.60	1.26
	30.80	37.00	2	6.20	0.15		0.15	0.60	1.12
	37.00	46.00	2	9.00	0.15		0.15	0.60	1.62
	46.00	64.10	2	18.10	0.15		0.15	0.60	3.26
	64.10	69.50	2	5.40	0.15		0.15	0.60	0.97
	69.50	73.00	2	3.50	0.15		0.15	0.60	0.63
	73.00	111.20	2	38.20	0.15		0.15	0.60	6.88
	111.20	121.50	2	10.30	0.15		0.15	0.60	1.85
	121.50	148.00	2	26.50	0.15		0.15	0.60	4.77
22ND MAIN ROAD DOWNSIDE (MARAMMA TEMPLE OPP)									
	0.00	30.00	2	30.00	0.15		0.15	0.60	5.40
	30.00	41.00	2	11.00	0.15		0.15	0.60	1.98
GKVK Road									
INSIDE CENTER OF EXCELLANCE FOR FORMER PRODUCER OFFICE - LHS									
	0.00	30.00	2	30.00	0.15		0.15	0.90	8.10
	30.00	60.00	2	30.00	0.15		0.15	0.90	8.10
	60.00	90.00	2	30.00	0.15		0.15	0.90	8.10
	90.00	102.00	2	12.00	0.15		0.15	0.90	3.24
FROM IVRF ROAD TO CRPF POND									
Chambers									
			9	1.50	0.75		0.75	0.15	1.52
			2	2.10	0.75		0.75	0.15	0.47 Culvert
								Total Qty	**107.43 CUM**
								Qty Payable in this bill	**107.43 CUM**

Contractor Representative

Consultant Representative

Asst Engineer
Yelahanka New Town Sub Division
BBMP

Asst.Executive Engineer
Yelahanka New Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)

Measurement Sheet

SIXTH and FINAL

Item No:	11
Item Name:	Providing and Fixing pre cast covering Slab of 100mm thick made out of CC jelly 20mm and down size with steel reinforecement , inclunding form work, lift charges, curing including cost of all materials ,Labour,Hire charges of machineries,loading onloading,lead and lift, Transportation etc,complete. as per Engineer in-charge.(Date Rate)
Final Measurement Date(s) :	28/06/2022,29/06/2022

Chainage / Land Mark		Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
100mm Drain Covering Slabs									
Adithya Nagara									
2nd Main (Masjid) Road from Masjid Road Turning to Yelahanka Main Road - LHS									
	0.00	20.50	1	20.50	0.90		0.90	18.45	
	20.50	23.80	0	3.30					BS Slab
	23.80	30.80	1	7.00	0.90		0.90	6.30	
	30.80	37.00	0	6.20					BS Slab
	37.00	46.00	1	9.00	0.90		0.90	8.10	
	46.00	64.10	0	18.10					BS Slab
	64.10	69.50	1	5.40	0.90		0.90	4.86	
	69.50	73.00	0	3.50					BS Slab
	73.00	111.20	1	38.20	0.90		0.90	34.38	
	111.20	121.50	0	10.30					BS Slab
	121.50	148.00	1	26.50	0.90		0.90	23.85	
22ND MAIN ROAD DOWNSIDE (MARAMMA TEMPLE OPP)									
	0.00	30.00	1	30.00	0.90		0.90	27.00	
	30.00	41.00	1	11.00	0.90		0.90	9.90	

CUM
CUM
Culvert

Chainage / Land Mark			Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
GKVK Road										
INSIDE CENTER OF EXCELLANCE FOR FORMER PRODUCER OFFICE - LHS										
	0.00	30.00	1	30.00	1.20		1.20		36.00	
	30.00	60.00	1	30.00	1.20		1.20		36.00	
	60.00	90.00	1	30.00	1.20		1.20		36.00	
	90.00	102.00	1	12.00	1.20		1.20		14.40	
								Total Qty	255.24	CUM
								Qty Payable in this bill	255.24	CUM

CONSULTANTS & ENGINEERS * Bangalore-59

Contractor Representative

Consultant Representative

Asst Engineer
Yelahanka New Town Sub Division
BBMP

Asst.Executive Engineer
Yelahanka New Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)

Measurement Sheet

SIXTH and FINAL

Item No:	12
Item Name:	Providing and fixing RCC precast cover slab of 230mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)
Final Measurement Date(s) :	30/06/2022

Chainage / Land Mark	Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
CC Covering Slabs								
						Total Qty	0.00	CUM
						BOQ Quantity Executed	67.20	
						Reserved Quantity to be released from FOURTH Part Bill	70.44	
						Total Workslip Quantity	137.64	SQM
						Total Payable Quantity in SIXTH and Final Bill	70.44	SQM

Contractor Representative

SAPIENS CONSULTANTS & ENGINEERS Bangalore-59

Consultant Representative

Asst Engineer
Yelahanka New Town Sub Division
BBMP

Asst.Executive Engineer
Yelahanka New Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)

Measurement Sheet

SIXTH and FINAL

Item No:	1
Item Name:	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embarnkemnt location to a lead of 1.00 km and complete as per specifications MORTH Specification No.301 (I No-19.14,P No-143)

Final Measurement Date(s) : 04/07/2022, 05/07/2022, 06/07/2022, 07/07/2022, 08/07/2022, 09/07/2022

Chainage		Nos	L	B	B1	Avg B	D	Qty	REMARKS
Land Mark			(m)	(m)	(m)	(m)	(m)		
Earth work for road									
FROM VEERASAGARA - BETTAHALLI MAIN ROAD TO SWD (DEAD END)									
0.00	30.00	1	30.00	6.60	5.90	6.25	0.30	56.25	
30.00	60.00	1	30.00	5.90	6.20	6.05	0.30	54.45	
60.00	90.00	1	30.00	6.20	6.10	6.15	0.30	55.35	
90.00	110.00	1	20.00	6.10	6.10	6.10	0.30	36.60	
110.00	115.60	1	5.60	6.10	6.00	6.05	0.30	10.16	
115.60	134.40	1	~~18.80~~ 16.40	6.00	4.50	5.25	0.30	~~29.61~~ 22.68	
CONTINUITY ROAD									
0.00	30.00	1	30.00	5.00	5.20	5.10	0.30	45.90	
30.00	60.00	1	30.00	5.20	5.00	5.10	0.30	45.90	
60.00	80.00	1	20.00	5.00	4.90	4.95	0.30	29.70	
CONTINUITY ROAD									
0.00	30.00	1	30.00	5.20	5.20	5.20	0.30	46.80	
30.00	60.00	1	30.00	5.20	5.30	5.25	0.30	47.25	
60.00	90.00	1	30.00	5.30	5.20	5.25	0.30	47.25	
90.00	115.00	1	~~25.00~~ 16.00	5.20	5.30	5.25	0.30	~~39.38~~ 25.20	

CRF

Chainage / Land Mark	Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
Deductions								
MANHOLE	-9	0.64				0.30	-1.73	
E. Pole	-3	0.30	0.30		0.30	0.30		
						Total Qty	542.79	
						Total BOQ Quantity	5008.80	
						Reserved Quantity to be released from FOURTH Part Bill	454.35	
						Reserved Quantity to be released from FIFTH Part Bill	198.54	
						Total Reserved Quantity to be Released	652.89	CUM
						Total Workslip Quantity	6204.48	CUM
						Total Payable Quantity in SIXTH and Final Bill	1195.68 / 1174.57	CUM

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ಬಿಬಿಎಂಪಿ ಬೆಂಗಳೂರು

CONSULTANTS & ENGINEERS * Bangalore-59

Contractor Representative

Consultant Representative

Asst Engineer
Yelahanka New Town Sub Division
BBMP

Asst.Executive Engineer
Yelahanka New Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)

Measurement Sheet

SIXTH and FINAL

Item No:	2
Item Name:	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147)

Final Measurement Date(s) : 06/07/2022 ,07/07/2022, 08/07/2022, 09/07/2022, 11,07/2022

Chainage / Land Mark		Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
Compaction for road formation									
FROM VEERASAGARA - BETTAHALLI MAIN ROAD TO SWD (DEAD END)									
0.00	30.00	1	30.00	6.60	5.90	6.25		187.50	
30.00	60.00	1	30.00	5.90	6.20	6.05		181.50	
60.00	90.00	1	30.00	6.20	6.10	6.15		184.50	
90.00	110.00	1	20.00	6.10	6.10	6.10		122.00	
110.00	115.60	1	5.60	6.10	6.00	6.05		33.88	
115.60	134.40	1	~~18.80~~ 14.40	6.00	4.50	5.25		~~98.70~~ 75.60	
CONTINUITY ROAD									
0.00	30.00	1	30.00	5.00	5.20	5.10		153.00	
30.00	60.00	1	30.00	5.20	5.00	5.10		153.00	
60.00	80.00	1	20.00	5.00	4.90	4.95		99.00	
CONTINUITY ROAD									
0.00	30.00	1	30.00	5.20	5.20	5.20		156.00	
30.00	60.00	1	30.00	5.20	5.30	5.25		157.50	
60.00	90.00	1	30.00	5.30	5.20	5.25		157.50	
90.00	115.00	1	~~25.00~~ 16.00	5.20	5.30	5.25		~~131.25~~ 84.00	

Chainage / Land Mark	Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
Deductions								
MANHOLE	-9	0.64					-5.76	
E. Pole	-3	0.30	0.30		0.30		-0.27	
							Total Qty	1809.30
							Qty Payable in this Bill	1809.30 SQM

1738.95

Contractor Representative

Consultant Representative

Asst Engineer
Yelahanka New Town Sub Division
BBMP

Asst.Executive Engineer
Yelahanka New Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)

Measurement Sheet

SIXTH and FINAL

Item No:	3
Item Name:	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)

Final Measurement Date(s) : 08/07/2022, 09/07/2022, 11,07/2022, 12/07/2022

Chainage / Land Mark		Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
GSB									
FROM VEERASAGARA - BETTAHALLI MAIN ROAD TO SWD (DEAD END)									
0.00	30.00	1	30.00	6.60	5.90	6.25	0.15	28.13	
30.00	60.00	1	30.00	5.90	6.20	6.05	0.15	27.23	
60.00	90.00	1	30.00	6.20	6.10	6.15	0.15	27.68	
90.00	110.00	1	20.00	6.10	6.10	6.10	0.15	18.30	
110.00	115.60	1	5.60	6.10	6.00	6.05	0.15	5.08	
115.60	134.40	1	~~18.80~~ 14.40	6.00	4.50	5.25	0.15	~~14.81~~ 11.34	
CONTINUITY ROAD									
0.00	30.00	1	30.00	5.00	5.20	5.10	0.15	22.95	
30.00	60.00	1	30.00	5.20	5.00	5.10	0.15	22.95	
60.00	80.00	1	20.00	5.00	4.90	4.95	0.15	14.85	
CONTINUITY ROAD									
0.00	30.00	1	30.00	5.20	5.20	5.20	0.15	23.40	
30.00	60.00	1	30.00	5.20	5.30	5.25	0.15	23.63	
60.00	90.00	1	30.00	5.30	5.20	5.25	0.15	23.63	
90.00	115.00	1	~~25.00~~ 16.00	5.20	5.30	5.25	0.15	~~19.69~~ 12.60	

Chainage / Land Mark	Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
Deductions								
MANHOLE	-9	0.64				0.15	-0.86	
E. Pole	-3	0.30	0.30		0.30	0.15		
						Total Qty	271.40	
						Qty Payable in this Bill	271.40	CUM

252.97

Contractor Representative

Consultant Representative

Asst Engineer
Yelahanka New Town Sub Division
BBMP

Asst.Executive Engineer
Yelahanka New Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)

Measurement Sheet

SIXTH and FINAL

Item No:	4
Item Name:	KSRRB M600-1.Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and 0.86cum and fine aggregate @0.58cum over a prepared sub-base,coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1.Aggregate gradation after blending to be as per Table 600-1,optimum moisture content to be determind during trial length construction,concrete strength not be determinde during trial length costruction, concrete strength not to be less than 10Mpa at 7 days,mixed in a batching plant,transported to site,laid with a paver,compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per spectications. Clause 601 of MORTH V Revision and IS 456 Table-5, with OPC at 150 kg/cum and coarse aggregate 0.86 cum,fine aggregate 0.58 cum using concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver 22.1.2,Pg No.-174 .

Final Measurement Date(s) : 15/07/2022, 16/07/2022

Chainage / Land Mark		Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
Dry Lean Cement Concrete for CC Road									
FROM VEERASAGARA - BETTAHALLI MAIN ROAD TO SWD (DEAD END)									
0.00	30.00	1	30.00	6.60	5.90	6.25	0.15	28.13	
30.00	60.00	1	30.00	5.90	6.20	6.05	0.15	27.23	
60.00	90.00	1	30.00	6.20	6.10	6.15	0.15	27.68	
90.00	110.00	1	20.00	6.10	6.10	6.10	0.15	18.30	
110.00	115.60	1	5.60	6.10	6.00	6.05	0.15	5.08	
115.60	134.40	1	~~18.80~~ 14.40	6.00	4.50	5.25	0.15	~~14.81~~ 11.34	
CONTINUITY ROAD									
0.00	30.00	1	30.00	5.00	5.20	5.10	0.15	22.95	
30.00	60.00	1	30.00	5.20	5.00	5.10	0.15	22.95	
60.00	80.00	1	20.00	5.00	4.90	4.95	0.15	14.85	
CONTINUITY ROAD									
0.00	30.00	1	30.00	5.20	5.20	5.20	0.15	23.40	
30.00	60.00	1	30.00	5.20	5.30	5.25	0.15	23.63	
60.00	90.00	1	30.00	5.30	5.20	5.25	0.15	23.63	
90.00	115.00	1	~~25.00~~ 16.00	5.20	5.30	5.25	0.15	~~19.69~~ 12.60	

Chainage / Land Mark	Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
Deductions								
MANHOLE	-9	0.64				0.15	-0.86	
E. Pole	-3	0.30	0.30		0.30	0.15	-0.04	
						Total Qty	271.40	
						BOQ Quantity Executed	656.78	
						Reserved Quantity to be released from FOURTH Part Bill	216.64	
						Total Workslip Quantity	1144.82	CUM
						Total Payable Quantity in SIXTH and Final Bill	488.04	CUM

477.51

Contractor Representative

Consultant Representative

Asst Engineer
Yelahanka New Town Sub Division
BBMP

Asst.Executive Engineer
Yelahanka New Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)

Measurement Sheet

SIXTH and FINAL

Item No:	5
Item Name:	Constructing un-reinforced,plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum,fine aggregates at 0.46 cum,coarse and fine aggregate conforming to IS:383-2016,with Superplastizer at 3 Its conforming to IS 9103-2008.mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design,laid in approved fixed side form work (sreel channel,layning and fixing of 125 micron thick polythene fim, wedges, steel plates including levelling the form work as per drawing). & Speration the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a construction and longitudinal joints,including groove cutting charges,joint filler,separation membrane of impermiable plastic sheet of 125 micron,sealant primer, joint sealant, admixtures as approved, curring compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials,labour,hire charges of machineries , all lead & lift charges etc., complete as per specifications.with OPC AT 360 kg/cum and coarse aggregate 0.69,fineaggregate 0.46cum. Item No.-22.6.3,Page No.-176

Final Measurement Date(s) : 19/07/2022, 20/07/2022, 21/07/2022

Chainage / Land Mark		Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
M30 Grade Cement for CC Road									
FROM VEERASAGARA - BETTAHALLI MAIN ROAD TO SWD (DEAD END)									
0.00	30.00	1	30.00	6.60	5.90	6.25	0.15	28.13	
30.00	60.00	1	30.00	5.90	6.20	6.05	0.15	27.23	
60.00	90.00	1	30.00	6.20	6.10	6.15	0.15	27.68	
90.00	110.00	1	20.00	6.10	6.10	6.10	0.15	18.30	
110.00	115.60	1	5.60	6.10	6.00	6.05	0.15	5.08	
115.60	134.40	1	~~18.80~~ 14.40	6.00	4.50	5.25	0.15	~~14.81~~ 11.34	
CONTINUITY ROAD									
0.00	30.00	1	30.00	5.00	5.20	5.10	0.15	22.95	
30.00	60.00	1	30.00	5.20	5.00	5.10	0.15	22.95	
60.00	80.00	1	20.00	5.00	4.90	4.95	0.15	14.85	
CONTINUITY ROAD									
0.00	30.00	1	30.00	5.20	5.20	5.20	0.15	23.40	
30.00	60.00	1	30.00	5.20	5.30	5.25	0.15	23.63	
60.00	90.00	1	30.00	5.30	5.20	5.25	0.15	23.63	
90.00	~~115.00~~ 106.40	1	~~25.00~~ 16.00	5.20	5.30	5.25	0.15	~~19.69~~ 12.60	

Chainage / Land Mark	Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
Deductions								
MANHOLE	-9	0.64				0.15	-0.86	
E. Pole	-3	0.30	0.30		0.30	0.15	-0.04	
Total Qty							271.40	
BOQ Quantity Executed							656.78	
Reserved Quantity to be released from FOURTH Part Bill							216.64	
Total Workslip Quantity							1144.82	CUM
Total Payable Quantity in SIXTH and Final Bill							488.04	CUM

477.51

Contractor Representative

SAPIENCE CONSULTANTS ENGINEERS Bangalore-59

Consultant Representative

Asst Engineer
Yelahanka New Town Sub Division
BBMP

Asst.Executive Engineer
Yelahanka New Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)

Measurement Sheet

SIXTH and FINAL

Item No:	17
Item Name:	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of materials , labour, HOM complete as per specification P.No.-158,I.No-21.7,Issue Rate

Final Measurement Date(s) : 22/07/2022;

Chainage / Land Mark	Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
Tack coat								
						Total Qty	0.00	
						BOQ Quantity Executed	27929.50	
						Reserved Quantity to be released from FIFTH Part Bill	489.09	
						Total Workslip Quantity	28418.59	SQM
						Total Payable Quantity in SIXTH and Final Bill	489.09	SQM

Contractor Representative

SAPLEE CONSULTANTS & ENGINEERS Bangalore-59

Consultant Representative

Asst Engineer
Yelahanka New Town Sub Division
BBMP

Asst.Executive Engineer
Yelahanka New Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)

Measurement Sheet

SIXTH and FINAL

Item No:	18
Item Name:	KSRRB M500-17. Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with mechanical paver Gr-II (50mm to 75mm) with 4.5% VG-30 bitumen with all lead and lift and as per the direction of Engineer in-charge.I.No.-21.17.6,Pg.No.- 160

Final Measurement Date(s) : 22/07/2022

Chainage / Land Mark	Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
Dense Graded Bituminous								
							Total Qty	0.00
							BOQ Quantity Executed	1396.48
							Reserved Quantity to be released from FIFTH Part Bill	24.44
							Total Workslip Quantity	1420.92 CUM
							Total Payable Quantity in SIXTH and Final Bill	24.44 CUM

SAPIENCE CONSULTANTS & ENGINEERS Bangalore-560

Contractor Representative

Consultant Representative

Asst Engineer
Yelahanka New Town Sub Division
BBMP

Asst Executive Engineer
Yelahanka New Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)

Measurement Sheet

SIXTH and FINAL

Item No:	19
Item Name:	Providing and laying Bituminous concrete , using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision - using 40-60 TPH capacity HMP with mechanical paver grading II (30-40mm) with 5.4% of VG-30 bitumen .Page no-162 It. No -21.22.6

Final Measurement Date(s) : 23/07/2022

Chainage / Land Mark	Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
Bituminous concrete								
							Total Qty	0.00	
							BOQ Quantity Executed	1052.24	
							Reserved Quantity to be released from FIFTH Part Bill	84.50	
							Total Workslip Quantity	1136.74	CUM
							Total Payable Quantity in SIXTH and Final Bill	84.50	CUM

Contractor Representative

Consultant Representative

Asst Engineer
Yelahanka New Town Sub Division
BBMP

Executive Engineer
Yelahanka New Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)

Measurement Sheet

SIXTH and FINAL

Item No:	14
Item Name:	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 ,Specification No.KSRRB M800 -6.P.No.180,I.No-24.1 of PW,P & IWTD SR 2018-19 ,

Final Measurement Date(s) : 24/07/2022,

Chainage / Land Mark		Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
KERB Painting									
3RD MAIN ROAD KAVERI LAYOUT LHS									
0.00	30.00	1.00	30.00				0.35	10.50	
30.00	60.00	1.00	30.00				0.35	10.50	
60.00	90.00	1.00	30.00				0.35	10.50	
90.00	120.00	1.00	30.00				0.35	10.50	
120.00	139.00	1.00	19.00				0.35	6.65	
139.00	146.00								
146.00	171.00	1.00	25.00				0.35	8.75	
171.00	177.00								
177.00	203.00	1.00	26.00				0.35	9.10	
203.00	208.50								
208.50	235.00	1.00	26.50				0.35	9.28	
235.00	240.50								
240.50	263.00	1.00	22.50				0.35		
3RD MAIN ROAD KAVERI LAYOUT RHS									
0.00	30.00	1.00	30.00				0.35	10.50	
30.00	60.00	1.00	30.00				0.35	10.50	
60.00	90.00	1.00	30.00				0.35	10.50	
90.00	120.00	1.00	30.00				0.35	10.50	
120.00	150.00	1.00	30.00				0.35	10.50	
150.00	180.00	1.00	30.00				0.35	10.50	
180.00	210.00	1.00	30.00				0.35	10.50	
210.00	240.00	1.00	30.00				0.35	10.50	
240.00	270.00	1.00	30.00				0.35	10.50	
270.00	282.60	1.00	12.60				0.35	4.41	

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Chainage		Nos	L	B	B1	Avg B	D	Qty	REMARKS
Land Mark			(m)	(m)	(m)	(m)	(m)		
3RD MAIN ,1ST CROSS ROAD KAVERI LAYOUT LHS									
0.00	30.00	1.00	30.00				0.35	10.50	
30.00	60.00	1.00	30.00				0.35	10.50	
60.00	63.10	1.00	3.10				0.35	1.09	
3RD MAIN ,1ST CROSS ROAD KAVERI LAYOUT RHS									
0.00	30.00	1.00	30.00				0.35	10.50	
30.00	60.00	1.00	30.00				0.35	10.50	
60.00	63.10	1.00	3.10				0.35	1.09	
3RD MAIN ,2ND CROSS ROAD KAVERI LAYOUT LHS									
0.00	30.00	1.00	30.00				0.35	10.50	
30.00	60.00	1.00	30.00				0.35	10.50	
60.00	90.00	1.00	30.00				0.35	10.50	
90.00	120.00	1.00	30.00				0.35	10.50	
120.00	128.20	1.00	8.20				0.35	2.87	
3RD MAIN ,2ND CROSS ROAD KAVERI LAYOUT RHS									
0.00	30.00	1.00	30.00				0.35	10.50	Approach
30.00	60.00	1.00	30.00				0.35	10.50	
60.00	90.00	1.00	30.00				0.35	10.50	
90.00	120.00	1.00	30.00				0.35	10.50	
120.00	128.40	1.00	8.40				0.35	2.94	
3RD MAIN ,3RD CROSS ROAD KAVERI LAYOUT LHS									
0.00	30.00	1.00	30.00				0.35	10.50	
30.00	60.00	1.00	30.00				0.35	10.50	
60.00	90.00	1.00	30.00				0.35	10.50	
90.00	120.00	1.00	30.00				0.35	10.50	
120.00	150.00	1.00	30.00				0.35	10.50	
150.00	173.50	1.00	23.50				0.35	8.23	
3RD MAIN ,3RD CROSS ROAD KAVERI LAYOUT RHS									
0.00	30.00	1.00	30.00				0.35	10.50	
30.00	60.00	1.00	30.00				0.35	10.50	
60.00	90.00	1.00	30.00				0.35	10.50	
90.00	120.00	1.00	30.00				0.35	10.50	
120.00	150.00	1.00	30.00				0.35	10.50	
3RD MAIN ,4TH CROSS ROAD KAVERI LAYOUT LHS									
0.00	30.00	1.00	30.00				0.35	10.50	
30.00	60.00	1.00	30.00				0.35	10.50	
60.00	90.00	1.00	30.00				0.35	10.50	
90.00	120.00	1.00	30.00				0.35	10.50	
120.00	150.00	1.00	30.00				0.35	10.50	
150.00	166.80	1.00	16.80				0.35	5.88	

Chainage		Nos	L	B	B1	Avg B	D	Qty	REMARKS
Land Mark			(m)	(m)	(m)	(m)	(m)		
3RD MAIN ,4TH CROSS ROAD KAVERI LAYOUT RHS									
0.00	30.00	1.00	30.00				0.35	10.50	
30.00	60.00	1.00	30.00				0.35	10.50	
60.00	90.00	1.00	30.00				0.35	10.50	
90.00	120.00	1.00	30.00				0.35	10.50	
120.00	150.00	1.00	30.00				0.35	10.50	
150.00	166.80	1.00	16.80				0.35	5.88	
3RD MAIN ,5TH CROSS ROAD KAVERI LAYOUT LHS									
0.00	30.00	1.00	30.00				0.35	10.50	
30.00	60.00	1.00	30.00				0.35	10.50	
4TH MAIN ROAD KAVERI LAYOUT LHS									
0.00	30.00	1.00	30.00				0.35	10.50	
30.00	36.50								
36.50	66.50	1.00	30.00				0.35	10.50	
66.50	96.50	1.00	30.00				0.35	10.50	
96.50	129.00	1.00	32.50				0.35	11.38	
4TH MAIN ROAD KAVERI LAYOUT RHS									
0.00	13.60	1.00	13.60				0.35	4.76	
13.60	19.70								
19.70	45.70	1.00	26.00				0.35	9.10	
45.70	52.10								
52.10	77.10	1.00	25.00				0.35	8.75	
77.10	84.20								
84.20	110.10	1.00	25.90				0.35	9.07	
110.10	115.60								
115.60	130.70	1.00	15.10				0.35	5.29	
4TH MAIN ROAD 1ST CROSS ROAD KAVERI LAYOUT LHS									
0.00	27.10	1.00	27.10				0.35	9.49	
4TH MAIN ROAD 1ST CROSS ROAD KAVERI LAYOUT RHS									
0.00	26.60	1.00	26.60				0.35	9.31	
IVRI ROAD FROM DODDABALLAPURA MAIN ROAD TO NVN COLLEGE									
0.00	30.00	1.00	30.00				0.35	10.50	
30.00	60.00	1.00	30.00				0.35	10.50	
60.00	90.00	1.00	30.00				0.35	10.50	
90.00	120.00	1.00	30.00				0.35	10.50	
120.00	150.00	1.00	30.00				0.35	10.50	
150.00	180.00	1.00	30.00				0.35	10.50	
180.00	210.00	1.00	30.00				0.35	10.50	
210.00	240.00	1.00	30.00				0.35	10.50	
240.00	270.00	1.00	30.00				0.35	10.50	
270.00	282.60	1.00	12.60				0.35	4.41	
282.60	286.60								

Chainage		Nos	L	B	B1	Avg B	D	Qty	REMARKS
Land Mark			(m)	(m)	(m)	(m)	(m)		
286.60	300.00	1.00	13.40				0.35	4.69	
300.00	330.00	1.00	30.00				0.35	10.50	
330.00	360.00	1.00	30.00				0.35	10.50	
360.00	390.00	1.00	30.00				0.35	10.50	
390.00	420.00	1.00	30.00				0.35	10.50	
420.00	450.00	1.00	30.00				0.35	10.50	
450.00	480.00	1.00	30.00				0.35	10.50	
480.00	510.00	1.00	30.00				0.35	10.50	
510.00	540.00	1.00	30.00				0.35	10.50	
540.00	570.00	1.00	30.00				0.35	10.50	
570.00	600.00	1.00	30.00				0.35	10.50	
600.00	630.00	1.00	30.00				0.35	10.50	
630.00	661.20	1.00	31.20				0.35	10.92	
661.20	666.00								
666.00	690.00	1.00	24.00				0.35	8.40	
690.00	720.00	1.00	30.00				0.35	10.50	
720.00	750.00	1.00	30.00				0.35	10.50	
750.00	780.00	1.00	30.00				0.35	10.50	
780.00	810.00	1.00	30.00				0.35	10.50	
810.00	840.00	1.00	30.00				0.35	10.50	
840.00	870.00	1.00	30.00				0.35	10.50	
870.00	900.00	1.00	30.00				0.35	10.50	
900.00	930.00	1.00	30.00				0.35	10.50	
930.00	960.00	1.00	30.00				0.35	10.50	
960.00	990.00	1.00	30.00				0.35	10.50	
990.00	1020.00	1.00	30.00				0.35	10.50	
1020.00	1049.30	1.00	29.30				0.35	10.26	
1049.30	1067.20								
1067.20	1080.00	1.00	12.80				0.35	4.48	
1080.00	1110.00	1.00	30.00				0.35	10.50	
1110.00	1124.30	1.00	14.30				0.35	5.00	
1124.30	1141.40								
1141.40	1170.00	1.00	28.60				0.35	10.01	
1170.00	1200.00	1.00	30.00				0.35	10.50	
1200.00	1230.00	1.00	30.00				0.35	10.50	
1230.00	1260.00	1.00	30.00				0.35	10.50	
1260.00	1290.00	1.00	30.00				0.35	10.50	
1290.00	1314.10	1.00	24.10				0.35	8.43	
1314.10	1321.50								
1321.50	1350.00	1.00	28.50				0.35	9.98	
1350.00	1380.00	1.00	30.00				0.35	10.50	
1380.00	1410.00	1.00	30.00				0.35	10.50	
[illegible]	[illegible]	1.00	28.50				0.35	7.53	

Chainage / Land Mark		Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
ADITHYA NAGARA									
HT CROSS ROAD FROM 22ND MAIN ROAD TO MASJID-E-ABBASIYA -LHS									
0.00	14.00								
14.00	31.80	1.00	17.80						
31.80	39.00						0.35	6.23	
39.00	64.00	1.00	25.00				0.35	8.75	
HT CROSS ROAD FROM 22ND MAIN ROAD TO MASJID-E-ABBASIYA -RHS									
0.00	14.00								
14.00	30.00	1.00	16.00				0.35	5.60	
30.00	64.00	1.00	34.00				0.35	11.90	
1ST LEFT CROSS ROAD FROM HT CROSS ROAD TO END OF ROAD -LHS									
0.00	30.00	1.00	30.00				0.35	10.50	
30.00	60.00	1.00	30.00				0.35	10.50	
60.00	69.70	1.00	9.70				0.35	3.40	
1ST LEFT CROSS ROAD FROM HT CROSS ROAD TO END OF ROAD -RHS									
0.00	30.00	1.00	30.00				0.35	10.50	
30.00	60.00	1.00	30.00				0.35	10.50	
60.00	69.20	1.00	9.20				0.35	3.22	
0.00	32.40	0.00	32.40						
0.00	10.70	1.00	10.70				0.35	0.00	
0.00	30.00	1.00	30.00				0.35	3.75	
30.00	40.00	1.00	10.00				0.35	10.50	
0.00	16.50	1.00	16.50				0.35	3.50	
HESARAGHATTA MAIN ROAD FROM KANSHI RAM NAGARA 1ST MAIN LHS							0.35	5.78	
0.00	30.00	1.00	30.00				0.35	10.50	
30.00	64.50	1.00	34.50				0.35	12.08	
							Total Qty	**1276.45**	
							Qty Payable in this Bill	**1276.45**	**SQM**

Contractor Representative

SAPIENCE CONSULTANTS & ENGINEERS * Bangalore-59

Consultant Representative

Asst Engineer
Yelahanka New Town Sub Division
BBMP

Asst Executive Engineer
Yelahanka New Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)

Measurement Sheet

SIXTH and FINAL

Item No:	EIRL - 1
Item Name:	Providing and laying reinforced cement concrete pipe NP3 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. Specifications. No. KSRB 1000, 2300 MOST Specification No.1000 / 2300 - - 600mm. dia

Final Measurement Date(s) : 11/06/2022,13/06/2022, 14/06/2022

Chainage		Nos	L	B	B1	Avg B	D	Qty	REMARKS
Land Mark			(m)	(m)	(m)	(m)	(m)		
NP3 600mm dia pipes to drain out water from IVRF road to CRPF Quarters Pond									
FROM IVRF ROAD TO CRPF POND									
0.00	30.00	1	30.00					30.00	
30.00	60.00	1	30.00					30.00	
60.00	90.00	1	30.00					30.00	
90.00	120.00	1	30.00					30.00	
120.00	150.00	1	30.00					30.00	
150.00	163.00	1	13.00					13.00	
Connectivity to Pond									
0.00	7.00	1	7.00					7.00	
0.00	6.00	1	6.00					6.00	
							Total Qty	176.00	
							BOQ Quantity Executed	0.00	
							Total Reserved Quantity to be Released	176.00	CUM
							Total EIRL Quantity	176.00	CUM
							Total Payable Quantity in SIXTH and Final Bill	176.00	CUM

Contractor Representative

SAPIENCE CONSULTANTS & ENGINEERS Bangalore-59

Consultant Representative

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Yelahanka New Town Sub Division
BBMP

Asst.Executive Engineer
Yelahanka New Town Sub Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)

Measurement Sheet

SIXTH and FINAL

Item No:	EIRL - 2
Item Name:	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6 stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13

Final Measurement Date(s) : 14/06/2022, 15/06/2022, 16/06/222

Chainage / Land Mark	Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
SSM Chambers for NP3 Pipe								
FROM IVRF ROAD TO CRPF POND								
	9	1.30	0.50		0.50	1.50	8.78	
	2	2.10	0.50		0.50	1.50	3.15	
Deductions (Area of Pipe)								
	-9	0.60	0.50		0.50	0.60	-1.62	
	-2	0.60	0.50		0.50	0.60	-0.36	
							Total Qty	9.95	
							BOQ Quantity Executed	0.00	
							Total Reserved Quantity to be Released	9.95	CUM
							Total EIRL Quantity	9.95	CUM
							Total Payable Quantity in SIXTH and Final Bill	9.95	CUM

Checked
14/06/2022

Contractor Representative

Consultant Representative

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BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Restoration and Improvements of Roads from Doddaballapura Main Road to Nagarjuna College, Kaveri Layout, Chowdappa Layout, Maruthinagara, Hariraja Layout and Surrounding Areas in Ward No - 03 of Yelahanka New Town Sub Division (PACKAGE NO -12)

Measurement Sheet

SIXTH and FINAL

Item No:	EIRL
Item Name:	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and/ or compressed air to receive the bitumenous treatment including cost of all materials,labour, HOM of machinaries complete as per specifications. MORTH specification Clause 501

Final Measurement Date(s) : 22/07/2022;

Chainage / Land Mark	Nos	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	Qty	REMARKS
Cleaning								
						Total Qty	0.00	
						BOQ Quantity Executed	0.00	
						Reserved Quantity to be released from FIFTH Part Bill	11382.39	
						Total Reserved Quantity to be Released	11382.39	SQM
						Total Workslip Quantity	11382.39	SQM
						Total Payable Quantity in SIXTH and Final Bill	11382.39	SQM

SCIENCE CONSULTANTS & ENGINEERS * Bangalore-59

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